

# PATENT COOPERATION TREATY

From the  
INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

To: GREGORY D. OGROD  
GREENHAUS, BRUCE W.  
QUALCOMM INCORPORATED  
6455 LUSK BOULEVARD  
SAN DIEGO, CA 92121

## PCT

### WRITTEN OPINION

(PCT Rule 66)

Date of Mailing (day/month/year) <b>04 MAY 1999</b>	
Applicant's or agent's file reference <b>QCPA392PCT</b>	<b>REPLY DUE</b> within <b>TWO</b> months from the above date of mailing
International application No. <b>PCT/US98/04799</b>	International filing date (day/month/year) <b>04 MARCH 1998</b>
Priority date (day/month/year) <b>11 MARCH 1997</b>	
International Patent Classification (IPC) or both national classification and IPC <b>IPC(6): H04L9/06 and US Cl.: 380/09</b>	
Applicant <b>QUALCOMM INCORPORATION</b>	

1. This written opinion is the first (first, etc.) drawn by this International Preliminary Examining Authority.
2. This opinion contains indications relating to the following items:
  - I ☒ Basis of the opinion
  - II ☐ Priority
  - III ☐ Non-establishment of opinion with regard to novelty, inventive step or industrial applicability
  - IV ☐ Lack of unity of invention
  - V ☒ Reasoned statement under Rule 66 2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
  - VI ☐ Certain documents cited
  - VII ☐ Certain defects in the international application
  - VIII ☐ Certain observations on the international application
3. The applicant is hereby invited to reply to this opinion.
 

**When?** See the time limit indicated above. ~~The applicant may, before the expiration of that time limit, request this Authority to grant an extension; see Rule 66.3(d).~~

**How?** By submitting a written reply, accompanied, where appropriate, by amendments, according to Rule 66.3. For the form and the language of the amendments, see Rules 66.8 and 66.9.

**Also** For an additional opportunity to submit amendments, see Rule 66.4.  
For the examiner's obligation to consider amendments and/or arguments, see Rule 66.4 *bis*.  
For an informal communication with the examiner, see Rule 66.6.

If no reply is filed, the international preliminary examination report will be established on the basis of this opinion.
4. The final date by which the international preliminary examination report must be established according to Rule 69.2 is: 11 JULY 1999

Name and mailing address of the IPEA/US Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231 Facsimile No. (703) 305-3230	Authorized officer Toby Anderson Telephone No. (703) 305-1836
--	---

## International application No.

## I. Basis of the opinion

☒ the international application as originally filed.

☒ the description, pages 1-13, as originally filed.

pages NONE, filed with the demand.

pages NONE , filed with the letter of \_\_\_\_\_

☒ the claims, Nos. 1-23, as originally filed.

Nos. NONE, as amended under Article 19.

Nos. NONE, filed with the demand.

Nos. NONE, filed with the letter of

☒ the drawings, sheets/Fig. 1-6, as originally filed.

sheets/46 NONE, filed with the demand.

\_\_\_\_\_ sheets/eg NONE, filed with the letter of \_\_\_\_\_

☒ the description, pages NONE

☒ the claims, Nos. NONE

☒ the drawings, sheets 46 NONE

4. Additional observations, if necessary:

Form PCT/PEA/408 (Box 1) (January 1994)\*

## WRITTEN OPINION

International application No.

PCT/US98/04799

**V. Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement****1. STATEMENT**

Novelty (N)	Claims <u>1-20</u>	YES
	Claims <u>21-23</u>	NO
Inventive Step (IS)	Claims <u>NONE</u>	YES
	Claims <u>1-23</u>	NO
Industrial Applicability (IA)	Claims <u>1-23</u>	YES
	Claims <u>NONE</u>	NO

**2. CITATIONS AND EXPLANATIONS**

Claims 1-20 meet the novelty requirement in that a single reference does not teach or fairly suggest the claimed invention.

Claims 21-23 lack novelty under PCT Article 33(2) as being anticipated by Alanarset US Patent No. 5,594,797.

Claims 21-23 lack novelty under PCT Article 33(2) as being anticipated by Reeds, US Patent No. 5,152,634.

Claims 21 and 22 lack novelty under PCT Article 33(2) as being anticipated by Shimada, US Patent No. 5,687,238.

Claims 1-23 lack inventive step under PCT Article 33(2) as being anticipated by Alanarset, US Patent No. 5,594,797 in view of Shimada, US Patent No. 5,687,238. Alanarset teaches a method of transforming a set of message signals comprising a first encryption step, a self inverting encryption step, and a reverse encryption step. Alanarset also discloses all limitations in claims 2-23. Alanarset does not explicitly teach a second encryption step and a second reverse encryption step. Shimada discloses these steps.

Claims 1-23 meet the Industrial Applicability requirement in that a method of transforming a set of message signals is a useful and applicable invention for data security.

----- NEW CITATIONS -----

US 5,687,238 A (SHIMADA, Michio) 11 NOV 1997, see: abstract; column 1, lines 39-59

WRITTEN OPINION

International application No.

PCT/US92/04799

**Supplemental Box**

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: Boxes I - VIII

Sheet 10

**TIME LIMIT:**

The time limit set for response to a Written Opinion may not be extended. 37 CFR 1.484(d). Any response received after the expiration of the time limit set in the Written Opinion will not be considered in preparing the International Preliminary Examination Report.